# spectrum®



# SAFETY DATA SHEET

Preparation Date: 03/31/2015 Product identifier Revision Date: Not Applicable

Revision Number: Not Applicable

Category 2B

Product code: Product Name: G1024 GLYCYLGLYCINE, ULTRAPURE

# Other means of identification

Synonyms: CAS #: RTECS # CI#: N-Glycylglycine; 2-(Aminoacetamido) Acetic Acid; Diglycine; GLY2 556-50-3 Not available Not available

# Recommended use of the chemical and restrictions on use

Recommended use: Uses advised against	No information available. No information available
Supplier:	Spectrum Chemical Mfg. Corp 14422 South San Pedro St. Gardena, CA 90248 (310) 516-8000
Order Online At:	https://www.spectrumchemical.com
Emergency telephone number	Chemtrec 1-800-424-9300
Contact Person:	Martin LaBenz (West Coast)
Contact Person:	Ibad Tirmiz (East Coast)

# 2. HAZARDS IDENTIFICATION

# Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

# Serious eye damage/eye irritation

# Label elements

# Warning

Hazard statements Causes eye irritation

Hazards not otherwise classified (HNOC) Not Applicable

Other hazards Not available

# **Precautionary Statements - Prevention**

Wash face, hands and any exposed skin thoroughly after handling

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS-No.	Weight %	Trade Secret
Glycylglycine	556-50-3	100	*
556-50-3			

# **4. FIRST AID MEASURES**

First aid measures General Advice:	Poison information centers in each State capital city can provide additional assistance for scheduled poisons (13 1126)		
Skin Contact:	Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes. Get medical attention if irritation develops. Consult a physician if necessary.		
Eye Contact:	Flush eye with water for 15 minutes. Get medical attention if irritation occurs. If symptoms persist, call a physician.		
Inhalation:	Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.		
Ingestion:	Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Consult a physician if necessary.		
Most important symptoms and effect	ts, both acute and delayed		
Symptoms	Causes eye irritation.		
Indication of any immediate medical attention and special treatment needed			

Notes to Physician: Treat symptomatically

# Protection of first-aiders

First-Aid Providers: Avoid exposure to blood or body fluids. Wear gloves and other necessary protective clothing. Dispose of contaminated clothing and equipment as bio-hazardous waste

# **5. FIRE-FIGHTING MEASURES**

Extinguishing Media	
Suitable Extinguishing Media:	Carbon dioxide (CO2). Dry chemical. Water spray mist or foam.
Unsuitable Extinguishing Media:	No information available.
Specific hazards arising from the chemical	
Hazardous Combustion Products:	Carbon oxides, Nitrogen oxides
Specific hazards:	May be combustible at high temperatures
Special Protective Actions for Firefighters	

# **Specific Methods:**

No information available.

**Special Protective Equipment for Firefighters:** 

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear

# 6. ACCIDENTAL RELEASE MEASURES

# Personal precautions, protective equipment and emergency procedures

Personal Precautions:	Ensure adequate ventilation. Use personal protective equipment. Avoid contact with skin, eyes and clothing. Avoid dust formation. Keep people away from and upwind of spill/leak. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Remove all sources of ignition.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. Prevent entry into waterways, sewers, basements or confined areas.
Methods and material for contain	nment and cleaning up
Methods for containment	Stop leak if you can do it without risk. Cover with plastic sheet to prevent spreading.
Methods for cleaning up	Sweep up and shovel into suitable containers for disposal. Clean contaminated surface thoroughly.

# 7. HANDLING AND STORAGE

Precautions for safe handling

# **Technical Measures/Precautions:**

Provide sufficient air exchange and/or exhaust in work rooms. Keep away from incompatible materials.

# Safe Handling Advice:

Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Keep away from heat and sources of ignition. Do not ingest. Do not breathe vapours/dust. Handle in accordance with good industrial hygiene and safety practice.

# Conditions for safe storage, including any incompatibilities

# **Technical Measures/Storage Conditions:**

Keep container tightly closed in a dry and well-ventilated place. Store at room temperature in the original container. Store away from incompatible materials.

# Incompatible Materials:

Oxidizing agents.

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Control parameters** 

# National occupational exposure limits

United States

ĺ	Components	OSHA	NIOSH	ACGIH	AIHA WHEEL
	Glycylglycine 556-50-3	None	None	None	None

Canada
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	-			
Components	Alberta	British Columbia	Ontario	Quebec

Glycylglycine 556-50-3	None	None	None	None
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# Australia and Mexico

Components	Australia	Mexico
Glycylglycine	None	None
556-50-3		

# Appropriate engineering controls

# Engineering measures to reduce exposure:

Ensure adequate ventilation. Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

# Individual protection measures, such as personal protective equipment

# Personal Protective Equipment

Eye protection:	Safety glasses Safety glasses with side-shields	
Skin and body protection:	on: Chemical resistant apron. Gloves. Long sleeved clothing.	
Respiratory protection:	Effective dust mask Wear respirator with dust filter.	
Hygiene measures:	Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product. When using, do not eat, drink or smoke.	

# 9. PHYSICAL AND CHEMICAL PROPERTIES

# 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Solid.

Odor: No information available

Formula: C4H8N2O3

Flashpoint (°C/°F): No information available.

**Upper Explosion Limit (%):** No information available

**Melting point/range(°C/°F):** 255°C/491°F

Bulk density: No information available

**Density (g/cm3):** No information available

**VOC content (g/L):** No information available

Viscosity: No information available Appearance: Crystals. Powder.

Taste No information available

Flammability: No information available

Flash Point Tested according to: Not available

Autoignition Temperature (°C/°F): No information available

**Boiling point/range(°C/°F):** No information available

Specific gravity: No information available

**Evaporation rate:** No information available

Odor threshold (ppm): No information available

**Miscibility:** No information available

**10. STABILITY AND REACTIVITY** 

Color: White.

Molecular/Formula weight: 132.12

Flash point (°C): No data available

Lower Explosion Limit (%): No information available

**pH:** No information available

**Decomposition temperature(°C/°F):** No information available

Vapor pressure @ 20°C (kPa): No information available

Vapor density: No information available

Partition coefficient (n-octanol/water): No information available

**Solubility:** No information available

Reactivity Reactive with oxidizing agents

Chemical stability Stability:	Stable under recommended storage conditions
Possibility of Hazardous Reactions:	Hazardous polymerization does not occur
Conditions to avoid:	Heat. Ignition sources. Incompatible materials.
Incompatible Materials:	Oxidizing agents.
Hazardous decomposition products:	Carbon oxides. Nitrogen oxides (NOx).
Other Information	
Companyity	No information evolution

Corrosivity: No information available

Special Remarks on Corrosivity: No information available

# **11. TOXICOLOGICAL INFORMATION**

# Information on likely routes of exposure

Principal Routes of Exposure: None.

# **Component Information**

# Glycylglycine - 556-50-3

LD50/oral/rat = No information available LD50/oral/mouse = No information available LD50/dermal/rat = No information available LD50/dermal/rabbit = No information available LC50/inhalation/rat = No information available LC50/inhalation/mouse = No infomation available Other LD50 or LC50information = No information available

# **Product Information**

LD50/oral/rat = VALUE- Acute Tox Oral = No information available

LD50/oral/mouse = Value - Acute Tox Oral = No information available

LD50/dermal/rabbit VALUE-Acute Tox Dermal = No information available

LD50/dermal/rat VALUE -Acute Tox Dermal = No information available

LC50/inhalation/rat VALUE-Vapor = No information available VALUE-Gas = No information available VALUE-Dust/Mist = No information available

# LC50/Inhalation/mouse

VALUE-Vapor = No information available VALUE - Gas = No information available VALUE - Dust/Mist = No information available

Symptoms

Skin Contact:	May cause skin irritation.
Eye Contact:	Causes eye irritation.
Inhalation Ingestion	May cause respiratory tract irritation. Health injuries are not known or expected under normal use.
Aspiration hazard	No information available
Delayed and immediate effects as	well as chronic effects from short and long-term exposure
Chronic Toxicity	No information available
Sensitization:	No information available
Mutagenic Effects:	No information available
Product code: G1024	Product name: GLYCYLGLYCINE

# Carcinogenic effects:

# Not considered carcinogenic

Components	ACGIH - Carcinogens	IARC	NTP	OSHA HCS - Carcinogens	Australia - Prohibited Carcinogenic Substances	Australia - Notifiable Carcinogenic Substances
Glycylglycine	Not listed	Not listed	Not listed	Not listed	Not listed	Not listed

Reproductive toxicity	No data is available
Reproductive Effects:	No information available
Developmental Effects:	No information available
Teratogenic Effects:	No information available
Specific Target Organ Toxicity	
STOT - single exposure	No information available
STOT - repeated exposure	No information available
Target Organs:	No information available

# **12. ECOLOGICAL INFORMATION**

# Ecotoxicity

Ecotoxicity effects:	No data available.			
Persistence and degradability:	No information available			
Bioaccumulative potential:	No information available			
Mobility:	No information available			

# **13. DISPOSAL CONSIDERATIONS**

# **Disposal Methods**

# Waste from residues / unused products:

Waste must be disposed of in accordance with Federal, State and Local regulation.

# Contaminated packaging:

Empty containers should be taken for local recycling, recovery or waste disposal

Components	RCRA - F Series Wastes	RCRA - K Series Wastes	RCRA - P Series Wastes	RCRA - U Series Wastes
Glycylglycine	None	None	None	None

# 14. TRANSPORT INFORMATION

DOT

UN-No:

Not Regulated

Product code: G1024

Product name: GLYCYLGLYCINE, ULTRAPURE

# **14. TRANSPORT INFORMATION**

Proper Shipping Name:	No information
Hazard Class:	No information
Subsidiary Risk:	No information
Packing Group:	None
ERG No:	No information
Marine Pollutant	No data availa
DOT RQ (lbs):	No information

# **TDG** (Canada)

UN-No: **Proper Shipping Name:** Hazard Class: Subsidiary Risk: Packing Group: **Description:** 

# ADR

Not Regulated
No information availab
No information available
No information availal

# IMO / IMDG

UN-No:	Not Regulated
Proper Shipping Name:	No information
Hazard Class:	No information
Subsidiary Risk:	No information
Packing Group:	No information
Description:	No information
IMDG Page:	No information
Marine Pollutant	No information
MFAG:	No information
Maximum Quantity:	No information

# RID

UN-No:
Proper Shipping Name:
Hazard Class:
Subsidiary Risk:
Packing Group:
Classification Code:
Description:

# **ICAO**

UN-No:	
Proper Shipping Name:	
Hazard Class:	
Subsidiary Risk:	
Packing Group:	
Description:	

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Not Regulated No information available No information available No information available No information available No information available

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# Not Regulated

No information available No information available

# Not Regulated

No information available No information available No information available No information available No information available

# ΙΑΤΑ

Product code: G1024

# **14. TRANSPORT INFORMATION**

UN-No:
Proper Shipping Name:
Hazard Class:
Subsidiary Risk:
Packing Group:
Description:

Not Regulated No information available No information available No information available No information available No information available

# **15. REGULATORY INFORMATION**

# International Inventories

Components	U.S. TSCA	KOREA KECL	Philippines (PICCS)	Japan ENCS	CHINA	Australia (AICS)	EINECS-No.
Glycylglycine	Present	Present KE- 18073	Present	Present (2)- 2667	Present	Present	Present 209-127-8

# **U.S. Regulations**

# California Prop. 65: Safe Drinking Water and Toxic Enforcement Act of 1986.

Chemicals Known to the State of California to Cause Cancer: This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

## Chemicals Known to the State of California to Cause Reproductive Toxicity:

This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

Components	Carcinogen	Developmental Toxicity	Male Reproductive Toxicity	Female Reproductive Toxicity:
Glycylglycine	Not Listed	Not Listed	Not Listed	Not Listed

# CERCLA/SARA

Components	<b>CERCLA - Hazardous</b>	Section 302 Extremely	Section 302 Extremely	Section 313 -	Section 313 - Reporting
	Substances and their	Hazardous	Hazardous	Chemical Category	de minimis
	<b>Reportable Quantities</b>	Substances and TPQs	Substances and RQs		
Glycylglycine	None	None	None	None	None

# **U.S. TSCA**

	TSCA Section 5(a)2 - Chemicals With Significant New Use Rules (SNURS)	TSCA 8(d) -Health and Safety Reporting
Glycylglycine	Not Applicable	Not Applicable

# Canada

# WHMIS hazard class:

Non-controlled

# **Canada Controlled Products Regulation:**

This product has been classified according to the hazard criteria of the CPR (Controlled Products Regulation) and the MSDS contains all of the information required by the CPR.

# Inventory

Components		Canada (NDSL)
Glycylglycine	Present	Not Listed

Components	CEPA Schedule I - Toxic Substances	CEPA - 2010 Greenhouse Gases Subject to Manditory	
		Reporting	
Glycylglycine	Not listed	Not listed	

# **EU Classification**

<u>**R-phrase(s)**</u> not determined (not applicable)

# S -phrase(s)

none

Components	Classification	Concentration Limits:	Safety Phrases
Glycylglycine		No information	

# The product is classified in accordance with Annex VI to Directive 67/548/EEC

Indication of danger: None.

# **16. OTHER INFORMATION**

# **16. OTHER INFORMATION**

Preparation Date: Revision Date: Prepared by:

**Disclaimer:** 

03/31/2015 Not Applicable Sonia Owen

All chemicals may pose unknown hazards and should be used with caution. This Safety Data Sheet (SDS) applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this SDS. The physical properties reported in this SDS are obtained from the literature and do not constitute product specifications. Information contained herein does not constitute a warranty, whether expressed or implied, as to the safety, merchantability or fitness of the goods for a particular purpose. Spectrum Chemicals & Laboratory Products, Inc. assumes no responsibility for results obtained or for incidental or consequential damages, including lost profits, arising from the use of these data. No warranty against infringement of any patent, copyright or trademark is made or implied. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this SDS is based on technical data judged to be reliable, Spectrum assumes no responsibility for the completeness or accuracy of the information contained herein.

End of Safety Data Sheet